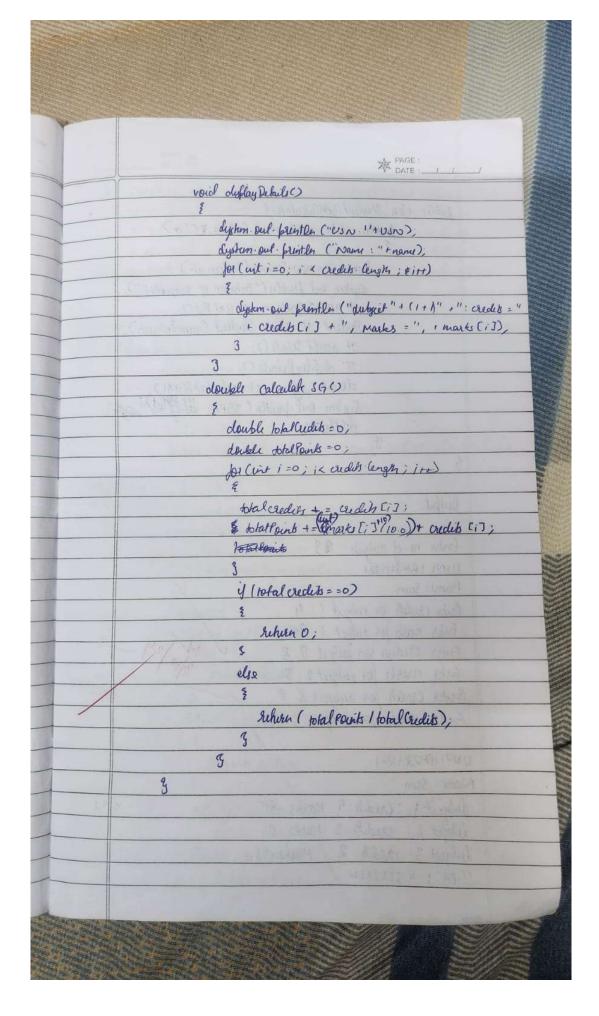
2. Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

```
import java.util.Scanner;
class Student
{
        String usn;
        String name;
        int[] credits;
        int[] marks;
        Student(){}
        Student(int numSubjects)
                credits = new int[numSubjects];
                marks = new int[numSubjects];
        void acceptDetails()
        {
                Scanner sc= new Scanner(System.in);
                System.out.println("Enter USN : ");
                usn = sc.next();
                System.out.println("Enter Name : ");
                name = sc.next();
                for(int i=0; i < credits.length;i++)</pre>
                        System.out.println("Enter credits for the subject "+(i+1)+" :");
                        credits[i]=sc.nextInt();
                        System.out.println("Enter marks for subject "+(i+1)+" :");
                        marks[i]=sc.nextInt();
        void displayDetails()
                System.out.println("USN : "+usn);
                System.out.println("Name : "+name);
                for(int i=0;i<credits.length;i++)</pre>
                {
                        System.out.println(" subject "+(i+1)+" : credits = "+credits[i]+" Marks = "+marks[i]);
                }
```

```
double calculateSG()
                double totalCredits = 0;
                double totalPoints = 0;
                for( int i=0; i<credits.length; i++)</pre>
                         totalCredits += credits[i];
                        if (marks[i]==100)
                                totalPoints +=(10*credits[i]);
                         else
                                 totalPoints +=((int)(marks[i]+10)/10)*credits[i];
                if (totalCredits == 0)
                        return 0;
                else
                        return (totalPoints/totalCredits);
        }
}
class StSgCalc
{
        public static void main( String[] xx)
                Scanner s = new Scanner(System.in);
                System.out.println("Enter no. of subjects: ");
                int numSubjects= s.nextInt();
                Student st= new Student(numSubjects);
                st.acceptDetails();
                st.displayDetails();
                double sgpa = st.calculateSG();
                System.out.println("SGPA :"+sgpa);
        }
```

```
C:\Users\sammj\OneDrive\Desktop\JAVA LAB\Lab 2>java StSgCalc
Enter no. of subjects :
3
Enter USN :
1BM23CS291
Enter Name :
Enter credits for the subject 1 :
Enter marks for subject 1 :
Enter credits for the subject 2 :
Enter marks for subject 2 :
Enter credits for the subject 3:
Enter marks for subject 3 :
78
USN: 1BM23CS291
Name : Sam
subject 1 : credits = 4 Marks = 95
subject 2 : credits = 3 Marks = 84
subject 3 : credits = 2 Marks = 78
SGPA :9.2222222222221
```

東 PAGE: 3 10 04 2 Revelop a Inva program to create a class student with members ust, name, an array credits and an array marks. Unclude methods to accept and obstray details of and a method to calculate SGPA of a student infort java util Scanner, class Student & Strang usn Strug name; int [] chedits; int [] marks; public student (int num Subjects) Cledits = new int Enum dubjects ] marks = new int [numdubject]; void acceptachails () Scanner S = new Scanner Csystem is) diplon out fruitly ("USN: ") USn = Stans. nent Line (); Lysten out fruitle ("Name: "); name = 3 next Line (), for (cut i = 0, ix Ordits length ; i++) dighten out fruitles ("the credits for subject"+ (i+1)+11;11); credity [i] = scans next ent(), I dysten out printles ("Enter marks for subject" + (i+1)+":"); marke [i] = JE. next lut (2)



kublic class Shudent SGPA Calculator ? public state void main ( string \* (3 m) Scanner S = new Scanner ( System in ) alystem out frintler ("Enter no of subjects: "); int numdubgiets = s near Ento; Student St = new Strolent (num Subjects); St accept Details (); St. duplay Retails () double sapa - st calculatisgray System out printle ("59PA: " 45 of the "1) ( 59PA); 3 Freebyen Outkut: Enhr no of augus: 23 USN: (BMAZCIAA) Name: Sam Enter credits for subject 1: 4 Eight masks for subject 1. 95 Enter credist por author 2:3 Enha marks for subject 2. 84 anta credit for dubject 3: 2 Enhr marks 108 dubject 3: 78 USN: 1842365291 Name: Sam dulget 1: credit: 4 Marks = 9x delgiet 2: credits: 3 Marks = 84 dubycet 3: credits: 2 Marks = 78 10,9,8 56PA: 9.222222